RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/565,626
Source: IFW P
Date Processed by STIC: 7/12/06

ENTERED

IFWP

RAW SEQUENCE LISTING DATE: 07/12/2006
PATENT APPLICATION: **US/10/565,626** TIME: 10:06:56

Input Set : **A:\seq list.txt**
Output Set: **N:\CRF4\07122006\J565626.raw**

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 3 <110> APPLICANT: INSERM
 5 <120> TITLE OF INVENTION: IL-11 muteins
 7 <130> FILE REFERENCE: 960-47
 9 <140> CURRENT APPLICATION NUMBER: 10/565,626
10 <141> CURRENT FILING DATE: 2006-01-24
12 <150> PRIOR APPLICATION NUMBER: PCT/EP04/009165
13 <151> PRIOR FILING DATE: 2004-07-29
15 <150> PRIOR APPLICATION NUMBER: US 60/490,525
16 <151> PRIOR FILING DATE: 2003-07-29
18 <160> NUMBER OF SEQ ID NOS: 90
20 <170> SOFTWARE: PatentIn version 3.3
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 199
24 <212> TYPE: PRT
25 <213> ORGANISM: Homo sapiens
27 <400> SEQUENCE: 1
29 Met Asn Cys Val Cys Arg Leu Val Leu Val Val Leu Ser Leu Trp Pro
30 1               5                  10                  15
33 Asp Thr Ala Val Ala Pro Gly Pro Pro Pro Gly Pro Pro Arg Val Ser
34             20                  25                  30
37 Pro Asp Pro Arg Ala Glu Leu Asp Ser Thr Val Leu Leu Thr Arg Ser
38         35                  40                  45
41 Leu Leu Ala Asp Thr Arg Gln Leu Ala Ala Gln Leu Arg Asp Lys Phe
42     50                  55                  60
45 Pro Ala Asp Gly Asp His Asn Leu Asp Ser Leu Pro Thr Leu Ala Met
46 65                  70                  75                  80
49 Ser Ala Gly Ala Leu Gly Ala Leu Gln Leu Pro Gly Val Leu Thr Arg
50                 85                  90                  95
53 Leu Arg Ala Asp Leu Leu Ser Tyr Leu Arg His Val Gln Trp Leu Arg
54             100                 105                 110
57 Arg Ala Gly Gly Ser Ser Leu Lys Thr Leu Glu Pro Glu Leu Gly Thr
58         115                 120                 125
61 Leu Gln Ala Arg Leu Asp Arg Leu Leu Arg Arg Leu Gln Leu Leu Met
62     130                 135                 140
65 Ser Arg Leu Ala Leu Pro Gln Pro Pro Pro Asp Pro Pro Ala Pro Pro
66 145                 150                 155                 160
69 Leu Ala Pro Pro Ser Ser Ala Trp Gly Gly Ile Arg Ala Ala His Ala
70                 165                 170                 175
73 Ile Leu Gly Gly Leu His Leu Thr Leu Asp Trp Ala Val Arg Gly Leu
74             180                 185                 190
77 Leu Leu Leu Lys Thr Arg Leu
78         195
81 <210> SEQ ID NO: 2
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RAW SEQUENCE LISTING DATE: 07/12/2006
PATENT APPLICATION: US/10/565,626 TIME: 10:06:56

Input Set : A:\seq list.txt
Output Set: N:\CRF4\07122006\J565626.raw

82 <211> LENGTH: 199
83 <212> TYPE: PRT
84 <213> ORGANISM: Macaca fascicularis
86 <400> SEQUENCE: 2
88 Met Asn Cys Val Cys Arg Leu Val Leu Val Val Leu Ser Leu Trp Pro
89 1 5 10 15
92 Asp Thr Ala Val Ala Pro Gly Pro Pro Pro Gly Ser Pro Arg Ala Ser
93 20 25 30
96 Pro Asp Pro Arg Ala Glu Leu Asp Ser Thr Val Leu Leu Thr Arg Ser
97 35 40 45
100 Leu Leu Glu Asp Thr Arg Gln Leu Thr Ile Gln Leu Lys Asp Lys Phe
101 50 55 60
104 Pro Ala Asp Gly Asp His Asn Leu Asp Ser Leu Pro Thr Leu Ala Met
105 65 70 75 80
108 Ser Ala Gly Ala Leu Gly Ala Leu Gln Leu Pro Ser Val Leu Thr Arg
109 85 90 95
112 Leu Arg Ala Asp Leu Leu Ser Tyr Leu Arg His Val Gln Trp Leu Arg
113 100 105 110
116 Arg Ala Met Gly Ser Ser Leu Lys Thr Leu Glu Pro Glu Leu Gly Thr
117 115 120 125
120 Leu Gln Thr Arg Leu Asp Arg Leu Leu Arg Arg Leu Gln Leu Leu Met
121 130 135 140
124 Ser Arg Leu Ala Leu Pro Gln Leu Pro Pro Asp Pro Pro Ala Pro Pro
125 145 150 155 160
128 Leu Ala Pro Pro Ser Ser Thr Trp Gly Gly Ile Arg Ala Ala His Ala
129 165 170 175
132 Ile Leu Gly Gly Leu His Leu Thr Leu Asp Trp Ala Val Arg Gly Leu
133 180 185 190
136 Leu Leu Leu Lys Thr Arg Leu
137 195
140 <210> SEQ ID NO: 3
141 <211> LENGTH: 199
142 <212> TYPE: PRT
143 <213> ORGANISM: Mus musculus
145 <400> SEQUENCE: 3
147 Met Asn Cys Val Cys Arg Leu Val Leu Val Val Leu Ser Leu Trp Pro
148 1 5 10 15
151 Asp Arg Val Val Ala Pro Gly Pro Pro Ala Gly Ser Pro Arg Val Ser
152 20 25 30
155 Ser Asp Pro Arg Ala Asp Leu Asp Ser Ala Val Leu Leu Thr Arg Ser
156 35 40 45
159 Leu Leu Ala Asp Thr Arg Gln Leu Ala Ala Gln Met Arg Asp Lys Phe
160 50 55 60
163 Pro Ala Asp Gly Asp His Ser Leu Asp Ser Leu Pro Thr Leu Ala Met
164 65 70 75 80
167 Ser Ala Gly Thr Leu Gly Ser Leu Gln Leu Pro Gly Val Leu Thr Arg
168 85 90 95
171 Leu Arg Val Asp Leu Met Ser Tyr Leu Arg His Val Gln Trp Leu Arg
172 100 105 110

RAW SEQUENCE LISTING DATE: 07/12/2006
PATENT APPLICATION: **US/10/565,626** TIME: 10:06:56

Input Set : **A:\seq list.txt**
Output Set: **N:\CRF4\07122006\J565626.raw**

```
175 Arg Ala Gly Gly Pro Ser Leu Lys Thr Leu Glu Pro Glu Leu Gly Ala
176         115                 120                 125
179 Leu Gln Ala Arg Leu Glu Arg Leu Leu Arg Arg Leu Gln Leu Leu Met
180     130                 135                 140
183 Ser Arg Leu Ala Leu Pro Gln Ala Ala Pro Asp Gln Pro Val Ile Pro
184 145                 150                 155                 160
187 Leu Gly Pro Pro Ala Ser Ala Trp Gly Ser Ile Arg Ala Ala His Ala
188                 165                 170                 175
191 Ile Leu Gly Gly Leu His Leu Thr Leu Asp Trp Ala Val Arg Gly Leu
192             180                 185                 190
195 Leu Leu Leu Lys Thr Arg Leu
196         195
199 <210> SEQ ID NO: 4
200 <211> LENGTH: 199
201 <212> TYPE: PRT
202 <213> ORGANISM: Rattus norvegicus
205 <400> SEQUENCE: 4
207 Met Asn Cys Val Cys Arg Leu Val Leu Val Val Leu Ser Leu Trp Pro
208 1               5                   10                  15
211 Asp Arg Val Val Ala Pro Gly Pro Pro Ala Gly Ser Pro Arg Val Ser
212             20                  25                  30
215 Ser Asp Pro Arg Ala Asp Leu Asp Ser Ala Val Leu Leu Thr Arg Ser
216         35                  40                  45
219 Leu Leu Ala Asp Thr Arg Gln Leu Ala Ala Gln Met Arg Asp Lys Phe
220     50                  55                  60
223 Pro Ala Asp Gly Asp His Asn Leu Asp Ser Leu Pro Thr Leu Ala Met
224 65                  70                  75                  80
227 Ser Ala Gly Thr Leu Gly Ser Leu Gln Leu Pro Gly Val Leu Thr Arg
228                 85                  90                  95
231 Leu Arg Val Asp Leu Met Ser Tyr Phe Arg His Val Gln Trp Leu Arg
232             100                 105                 110
235 Arg Ala Ala Gly Pro Ser Leu Lys Thr Leu Glu Pro Glu Leu Gly Ala
236         115                 120                 125
239 Leu Gln Ala Arg Leu Glu Arg Leu Leu Arg Arg Leu Gln Leu Leu Met
240     130                 135                 140
243 Ser Arg Leu Ala Leu Pro Gln Ala Ala Pro Asp Gln Pro Ala Val Pro
244 145                 150                 155                 160
247 Leu Gly Pro Pro Ala Ser Ala Trp Gly Ser Ile Arg Ala Ala His Ala
248                 165                 170                 175
251 Ile Leu Gly Gly Leu His Leu Thr Leu Asp Trp Ala Val Arg Gly Leu
252             180                 185                 190
255 Leu Leu Leu Lys Thr Arg Leu
256         195
259 <210> SEQ ID NO: 5
260 <211> LENGTH: 165
261 <212> TYPE: PRT
262 <213> ORGANISM: Homo sapiens
264 <400> SEQUENCE: 5
266 Pro Arg Ala Glu Leu Asp Ser Thr Val Leu Leu Thr Arg Ser Leu Leu
```

RAW SEQUENCE LISTING DATE: 07/12/2006
PATENT APPLICATION: **US/10/565,626** TIME: 10:06:56

Input Set : **A:\seq list.txt**
Output Set: **N:\CRF4\07122006\J565626.raw**

```
267 1               5                   10                  15
270 Ala Asp Thr Arg Gln Leu Ala Ala Gln Leu Arg Asp Lys Phe Pro Ala
271             20                  25                  30
274 Asp Gly Asp His Asn Leu Asp Ser Leu Pro Thr Leu Ala Met Ser Ala
275         35                  40                  45
278 Gly Ala Leu Gly Ala Leu Gln Leu Pro Gly Val Leu Thr Arg Leu Arg
279     50                  55                  60
282 Ala Asp Leu Leu Ser Tyr Leu Arg His Val Gln Trp Leu Arg Arg Ala
283 65                  70                  75                  80
286 Gly Gly Ser Ser Leu Lys Thr Leu Glu Pro Glu Leu Gly Thr Leu Gln
287                 85                  90                  95
290 Ala Arg Leu Asp Arg Leu Leu Arg Arg Leu Gln Leu Leu Met Ser Arg
291             100                 105                 110
294 Leu Ala Leu Pro Gln Pro Pro Pro Asp Pro Pro Ala Pro Pro Leu Ala
295         115                 120                 125
298 Pro Pro Ser Ser Ala Trp Gly Gly Ile Arg Ala Ala His Ala Ile Leu
299     130                 135                 140
302 Gly Gly Leu His Leu Thr Leu Asp Trp Ala Val Arg Gly Leu Leu Leu
303 145                 150                 155                 160
306 Leu Lys Thr Arg Leu
307                 165
310 <210> SEQ ID NO: 6
311 <211> LENGTH: 165
312 <212> TYPE: PRT
313 <213> ORGANISM: Macaca fascicularis
315 <400> SEQUENCE: 6
317 Pro Arg Ala Glu Leu Asp Ser Thr Val Leu Leu Thr Arg Ser Leu Leu
318 1               5                   10                  15
321 Glu Asp Thr Arg Gln Leu Thr Ile Gln Leu Lys Asp Lys Phe Pro Ala
322             20                  25                  30
325 Asp Gly Asp His Asn Leu Asp Ser Leu Pro Thr Leu Ala Met Ser Ala
326         35                  40                  45
329 Gly Ala Leu Gly Ala Leu Gln Leu Pro Ser Val Leu Thr Arg Leu Arg
330     50                  55                  60
333 Ala Asp Leu Leu Ser Tyr Leu Arg His Val Gln Trp Leu Arg Arg Ala
334 65                  70                  75                  80
337 Met Gly Ser Ser Leu Lys Thr Leu Glu Pro Glu Leu Gly Thr Leu Gln
338                 85                  90                  95
341 Thr Arg Leu Asp Arg Leu Leu Arg Arg Leu Gln Leu Leu Met Ser Arg
342             100                 105                 110
345 Leu Ala Leu Pro Gln Leu Pro Pro Asp Pro Pro Ala Pro Pro Leu Ala
346         115                 120                 125
349 Pro Pro Ser Ser Thr Trp Gly Gly Ile Arg Ala Ala His Ala Ile Leu
350     130                 135                 140
353 Gly Gly Leu His Leu Thr Leu Asp Trp Ala Val Arg Gly Leu Leu Leu
354 145                 150                 155                 160
357 Leu Lys Thr Arg Leu
358                 165
361 <210> SEQ ID NO: 7
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RAW SEQUENCE LISTING DATE: 07/12/2006
PATENT APPLICATION: **US/10/565,626** TIME: 10:06:56

Input Set : **A:\seq list.txt**
Output Set: **N:\CRF4\07122006\J565626.raw**

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362 <211> LENGTH: 165
363 <212> TYPE: PRT
364 <213> ORGANISM: Mus musculus
366 <400> SEQUENCE: 7
368 Pro Arg Ala Asp Leu Asp Ser Ala Val Leu Leu Thr Arg Ser Leu Leu
369 1               5                   10                  15
372 Ala Asp Thr Arg Gln Leu Ala Ala Gln Met Arg Asp Lys Phe Pro Ala
373             20                  25                  30
376 Asp Gly Asp His Ser Leu Asp Ser Leu Pro Thr Leu Ala Met Ser Ala
377         35                  40                  45
380 Gly Thr Leu Gly Ser Leu Gln Leu Pro Gly Val Leu Thr Arg Leu Arg
381     50                  55                  60
384 Val Asp Leu Met Ser Tyr Leu Arg His Val Gln Trp Leu Arg Arg Ala
385 65                  70                  75                  80
388 Gly Gly Pro Ser Leu Lys Thr Leu Glu Pro Glu Leu Gly Ala Leu Gln
389                 85                  90                  95
392 Ala Arg Leu Glu Arg Leu Leu Arg Arg Leu Gln Leu Leu Met Ser Arg
393             100                 105                 110
396 Leu Ala Leu Pro Gln Ala Ala Pro Asp Gln Pro Val Ile Pro Leu Gly
397         115                 120                 125
400 Pro Pro Ala Ser Ala Trp Gly Ser Ile Arg Ala Ala His Ala Ile Leu
401     130                 135                 140
404 Gly Gly Leu His Leu Thr Leu Asp Trp Ala Val Arg Gly Leu Leu Leu
405 145                 150                 155                 160
408 Leu Lys Thr Arg Leu
409                 165
413 <210> SEQ ID NO: 8
414 <211> LENGTH: 165
415 <212> TYPE: PRT
416 <213> ORGANISM: Rattus norvegicus
418 <400> SEQUENCE: 8
420 Pro Arg Ala Asp Leu Asp Ser Ala Val Leu Leu Thr Arg Ser Leu Leu
421 1               5                   10                  15
424 Ala Asp Thr Arg Gln Leu Ala Ala Gln Met Arg Asp Lys Phe Pro Ala
425             20                  25                  30
428 Asp Gly Asp His Asn Leu Asp Ser Leu Pro Thr Leu Ala Met Ser Ala
429         35                  40                  45
432 Gly Thr Leu Gly Ser Leu Gln Leu Pro Gly Val Leu Thr Arg Leu Arg
433     50                  55                  60
436 Val Asp Leu Met Ser Tyr Phe Arg His Val Gln Trp Leu Arg Arg Ala
437 65                  70                  75                  80
440 Ala Gly Pro Ser Leu Lys Thr Leu Glu Pro Glu Leu Gly Ala Leu Gln
441                 85                  90                  95
444 Ala Arg Leu Glu Arg Leu Leu Arg Arg Leu Gln Leu Leu Met Ser Arg
445             100                 105                 110
449 Leu Ala Leu Pro Gln Ala Ala Pro Asp Gln Pro Ala Val Pro Leu Gly
450         115                 120                 125
453 Pro Pro Ala Ser Ala Trp Gly Ser Ile Arg Ala Ala His Ala Ile Leu
454     130                 135                 140
```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/12/2006
PATENT APPLICATION: US/10/565,626 TIME: 10:06:57

Input Set : A:\seq list.txt
Output Set: N:\CRF4\07122006\J565626.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:9; Xaa Pos. 148,152
Seq#:14; Xaa Pos. 161,165
Seq#:19; Xaa Pos. 182,186
Seq#:24; Xaa Pos. 148,152
Seq#:29; Xaa Pos. 161,165
Seq#:34; Xaa Pos. 182,186
Seq#:39; Xaa Pos. 148,152
Seq#:44; Xaa Pos. 161,165
Seq#:49; Xaa Pos. 182,186
Seq#:54; Xaa Pos. 148,152
Seq#:59; Xaa Pos. 161,165
Seq#:64; Xaa Pos. 182,186
Seq#:70; N Pos. 442,443,444,454,455,456
Seq#:71; N Pos. 481,482,483,493,494,495
Seq#:72; N Pos. 544,545,546,556,557,558
Seq#:74; N Pos. 5892,5893,5894,5904,5905,5906
Seq#:75; N Pos. 607,608,609,619,620,621
Seq#:76; N Pos. 4311,4312,4313,4323,4324,4325

Invalid <213> Response:
Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33
Seq#:34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57
Seq#:58,59,60,61,62,63,64,65,66,67,68,70,71,72,73,74,75,76,79,80,81,82,83,84
Seq#:85,86,87,88,89,90

VERIFICATION SUMMARY DATE: 07/12/2006
PATENT APPLICATION: **US/10/565,626** TIME: 10:06:57

Input Set : **A:\seq list.txt**
Output Set: **N:\CRF4\07122006\J565626.raw**

L:522 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:144
L:809 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:160
L:1115 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:176
L:1430 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:144
L:1716 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:160
L:2022 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:176
L:2336 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:144
L:2622 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:160
L:2927 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:176
L:3240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:144
L:3526 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:160
L:3826 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:176
L:4145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70 after pos.:420
L:4188 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:480
L:4233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72 after pos.:540
L:4797 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:5880
L:4973 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 after pos.:600
L:5196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:4260
M:341 Repeated in SeqNo=76